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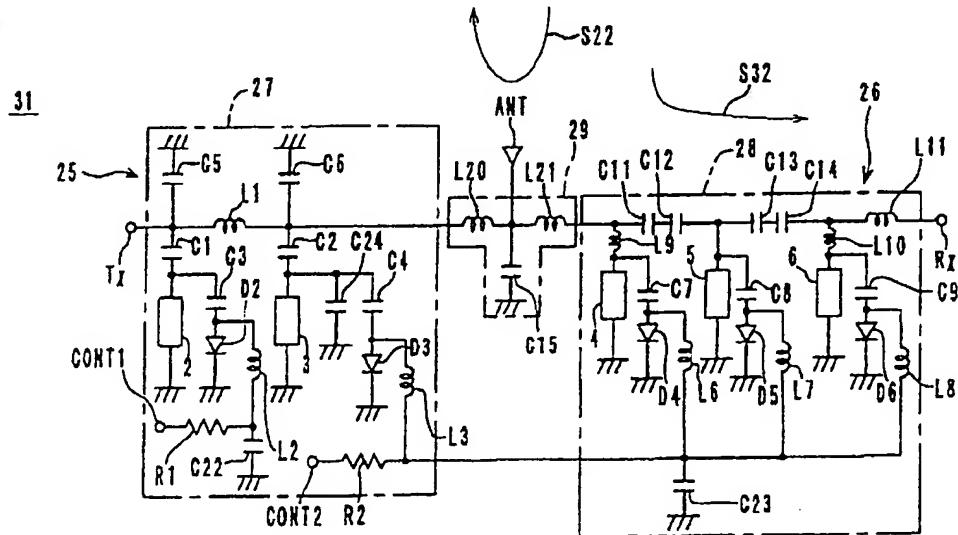
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## (54) Duplexer and communication apparatus

(57) There is disclosed a duplexer comprising: a first external terminal (TX); a second external terminal (RX); an antenna terminal (ANT); a first frequency variable filter (27) electrically connected between the first external terminal (TX) and the antenna terminal (ANT), and composed of at least one resonator (3) and a reactance element (D3) electrically connected to the resonator (3) and capable of being voltage-controlled; a second frequency variable filter (28) electrically connected be-

tween the second external terminal (RX) and the antenna terminal (ANT), and composed of at least one resonator (4, 5, 6) and a reactance element (D4, D5, D6) electrically connected to the resonator (4 - 6) and capable of being voltage-controlled; the predetermined reactance element (D3) of the first frequency variable filter (27) being in the on state when the reactance element (D4 - D6) of the second frequency variable filter (28) is in the on state.

FIG. 1





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## EUROPEAN SEARCH REPORT

Application Number

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TECHNICAL FIELDS SEARCHED (InCL.7)		
H01P H04B		

The present search report has been drawn up for all claims

Place of search <b>THE HAGUE</b>	Date of compilation of the search <b>29 May 2001</b>	Examiner <b>Den Otter, A</b>
CATEGORY OF CITING DOCUMENTS		
<input type="checkbox"/> X : particularly relevant if taken alone <input type="checkbox"/> Y : particularly relevant if combined with another document of the same category <input type="checkbox"/> A : technological background <input type="checkbox"/> D : document cited in the application <input type="checkbox"/> C : non-written disclosure <input type="checkbox"/> E : document cited for other reasons <input type="checkbox"/> P : intermediate document 	T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons  & : member of the same patent family, corresponding document	

ANNEX TO THE EUROPEAN SEARCH REPORT  
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